

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/922,067F  
Source: IFW16  
Date Processed by STIC: 1/3/05

# ***ENTERED***

# CRF Errors Edited by the STIC Systems Branch

Serial Number: 09/922,067F

CRF Edit Date: 1/4/05  
Edited by: Av

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

J Deleted: J invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

J Other: Sequence 7 - deleted <220> response

\_\_\_\_\_

\_\_\_\_\_



IFW16

## RAW SEQUENCE LISTING

DATE: 01/04/2005

PATENT APPLICATION: US/09/922,067F

TIME: 09:17:41

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01042005\I922067F.raw

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4 <110> APPLICANT: MacPhee, Colin Houston
5      Tew, David Graham
6      Southan, Christopher Donald
7      Hickey, Deirdre Mary Bernadette
8      Gloger, Israel Simon
9      Lawrence, Geoffrey Mark Prouse
10     Rice, Simon Quentyn John
12 <120> TITLE OF INVENTION: Lipoprotein Associated Phospholipase A2,
13     Inhibitors Thereof and Use of the Same in Diagnosis and
14     Therapy
16 <130> FILE REFERENCE: P30693C4X1C1
18 <140> CURRENT APPLICATION NUMBER: 09/922,067F
19 <141> CURRENT FILING DATE: 2001-08-03
21 <150> PRIOR APPLICATION NUMBER: 09/193,130
22 <151> PRIOR FILING DATE: 2000-11-28
24 <150> PRIOR APPLICATION NUMBER: 08/387,858
25 <151> PRIOR FILING DATE: 1994-06-24
27 <150> PRIOR APPLICATION NUMBER: PCT/GB94/01374
28 <151> PRIOR FILING DATE: 1994-06-24
30 <150> PRIOR APPLICATION NUMBER: GB 9313144.9
31 <151> PRIOR FILING DATE: 1993-06-25
33 <160> NUMBER OF SEQ ID NOS: 14
35 <170> SOFTWARE: FastSEQ for Windows Version 4.0
37 <210> SEQ ID NO: 1
38 <211> LENGTH: 37
39 <212> TYPE: PRT
40 <213> ORGANISM: Homo sapien
42 <400> SEQUENCE: 1
43 Met Leu Lys Leu Lys Gly Asp Ile Asp Ser Asn Ala Ala Ile Asp Leu
44 1          5          10          15
45 Ser Asn Lys Ala Ser Leu Ala Phe Leu Gln Lys His Leu Gly Leu His
46      20          25          30
47 Lys Asp Phe Asp Gln
48      35
51 <210> SEQ ID NO: 2
52 <211> LENGTH: 30
53 <212> TYPE: PRT
54 <213> ORGANISM: Homo sapien
56 <400> SEQUENCE: 2
57 Trp Met Phe Pro Leu Gly Asp Glu Val Tyr Ser Arg Ile Pro Gln Pro
58 1          5          10          15
59 Leu Phe Phe Ile Asn Ser Glu Tyr Phe Gln Tyr Pro Ala Asn
60      20          25          30

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/922,067F

DATE: 01/04/2005

TIME: 09:17:41

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01042005\I922067F.raw

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63 <210> SEQ ID NO: 3
64 <211> LENGTH: 27
65 <212> TYPE: PRT
66 <213> ORGANISM: Homo sapien
68 <400> SEQUENCE: 3
69 Gln Tyr Ile Asn Pro Ala Val Met Ile Thr Ile Arg Gly Ser Val His
70 1 5 10 15
71 Gln Asn Phe Ala Asp Phe Thr Phe Ala Thr Gly
72 20 25
75 <210> SEQ ID NO: 4
76 <211> LENGTH: 19
77 <212> TYPE: PRT
78 <213> ORGANISM: Homo sapien
80 <400> SEQUENCE: 4
81 Trp Leu Met Gly Asn Ile Leu Arg Leu Leu Phe Gly Ser Met Thr Thr
82 1 5 10 15
83 Pro Ala Asn
87 <210> SEQ ID NO: 5
88 <211> LENGTH: 420
89 <212> TYPE: DNA
90 <213> ORGANISM: Homo sapien
92 <220> FEATURE:
93 <221> NAME/KEY: misc_feature
94 <222> LOCATION: 265, 390, 395, 403, 406
95 <223> OTHER INFORMATION: n = A,T,C or G
97 <400> SEQUENCE: 5
98 aaaaaaccta ttttaatcct aattgtatatt ctctattcct gaagagttct gtaacatgat 60
99 gtgttgattg gttgtgttaa tggtggcccc tggaataaga ttctcatcat ctccttcaat 120
100 caagcagtc cactgatcaa aatctttatg aagtcctaaa tgcttttgta agaatgctaa 180
101 tgaagctttg ttgctaagat caatagctgc atttgaatct atgtctccct ttaatttgag 240
W--> 102 catgtgtcca attattttgc cagtngcaaa agtgaagtca gcaaaattct ggtggactga 300
103 acccctgatt gtaatcatct ttctttcttt atcaggtgag tagcattttt tcatttttat 360
104 gatattagca ggatattgga aatattcagn gttgntaaaa agnggnggct gagggattct 420
107 <210> SEQ ID NO: 6
108 <211> LENGTH: 379
109 <212> TYPE: DNA
110 <213> ORGANISM: Homo sapien
112 <220> FEATURE:
113 <221> NAME/KEY: misc_feature
114 <222> LOCATION: 84
115 <223> OTHER INFORMATION: n = A,T,C or G
117 <400> SEQUENCE: 6
118 tgctaataatc ataaaaatga aaaaatgcta ctcacctgat aaagaaagaa agatgattac 60
W--> 119 aatcaggggt tcagtccacc aganttttgc tgacttcact tttgcaactg gcaaaataat 120
120 tggacacatg ctcaaattaa agggagacat agattcaaat gtagctattg atcttagcaa 180
121 caaagcttca ttagcattct taaaaagca tttaggactt cataaagatt ttgttcagtg 240
122 ggactgcttg attgaaggag atgatgagaa tcttattcca gggaccaaca ttaacacaac 300
123 caattcaaca catcatgttt acagaacttc ttccaggga taggaggaaa tacaattggg 360
124 gtttaaaata ggtttttttt 379

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/922,067F

DATE: 01/04/2005

TIME: 09:17:41

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01042005\I922067F.raw

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126 <210> SEQ ID NO: 7
127 <211> LENGTH: 279
128 <212> TYPE: DNA
129 <213> ORGANISM: Homo sapien
131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: 257
134 <223> OTHER INFORMATION: n = A,T,C or G
136 <400> SEQUENCE: 7
137 gaagaatgca ttagatttaa agtttgatat ggaacaactg aaggactcta ttgataggga 60
138 aaaaatagca gtaattggac attcttttgg tggagcaacg gttattcaga ctcttagtga 120
139 agatcagaga ttcagatgtg gtattgccct ggatgcatgg atgtttccac tgggtgatga 180
140 agtatattcc agaattcctc agcccctctt ttttatcaac tctgaatatt tccaatatcc 240
W--> 141 tgctaataatc ataaaantgg aaaaatgcta ctcacctgg 279
143 <210> SEQ ID NO: 8
144 <211> LENGTH: 572
145 <212> TYPE: DNA
146 <213> ORGANISM: Homo sapien
148 <400> SEQUENCE: 8
149 aaaatagcag taattggaca ttcttttaggt ggagcaacgg ttattcagac tcttagtgaa 60
150 gatcagagat tcagatgtgg tattgccctg gatgcatgga tgtttccact gggatgatgaa 120
151 gtatattcca gaattcctca gcccctcttt tttatcaact ctgaatattt ccaatatcct 180
152 gctaatatca taaaaatgaa aaaatgctac tcacctgata aagaaagaaa gatgattaca 240
153 atcagggggtt cagtccacca gaattttgct gacttcactt ttgcaactgg caaaataatt 300
154 ggacacatgc tcaaattaaa gggagacata gattcaaatg tagctattga tcttagcaac 360
155 aaagcttcat cagcattctt acaaaagcat ttaggacttc ataaagattt tgatcagtgg 420
156 gactgcttga ttgaaggaga tgatgagaat cttattccag ggaccaacat taacacaacc 480
157 aatcaacaca tcatgttaca gaactcttca ggaatagaga aatacaatta ggattaaaat 540
158 aggttttttta aaaaaaaaaa aaaaaaaact cg 572
160 <210> SEQ ID NO: 9
161 <211> LENGTH: 1361
162 <212> TYPE: DNA
163 <213> ORGANISM: Homo sapien
165 <400> SEQUENCE: 9
166 tgagagacta agctgaaact gctgctcagc tcccaagatg gtgccacca aattgcatgt 60
167 gctttttctgc ctctgcggct gcctggctgt ggtttatcct tttgactggc aatacataaa 120
168 tcctgttgcc catatgaaat catcagcatg ggtcaacaaa atacaagtac tgatggctgc 180
169 tgcaagcttt ggccaaacta aaatcccccg gggaaatggg ccttattccg ttggttgtag 240
170 agacttaatg tttgatcaca ctaataaggg caccttcttg cgtttatatt atccatccca 300
171 agataatgat cgcttgaca ccctttggat ccaaataaa gaatattttt ggggtcttag 360
172 caaatttctt ggaacacact ggcttatggg caacattttg aggttactct ttggttcaat 420
173 gacaactcct gcaaaactgga attcccctct gaggcctggg gaaaaatatc cacttggtgt 480
174 tttttctcat ggtcttgggg cattcaggac actttattct gctattggca ttgacctggc 540
175 atctcatggg tttatagttg ctgctgtaga acacagagat agatctgcat ctgcaactta 600
176 ctatttcaag gaccaatctg ctgcagaaat aggggacaag tcttggtctt accttagaac 660
177 cctgaaacaa gaggaggaga cacatatagc aaatgagcag gtacggcaaa gagcaaaaga 720
178 atgttcccaa gctctcagtc tgattcttga cattgatcat ggaaagccag tgaagaatgc 780
179 attagattta aagtttgata tggaacaact gaaggactct attgataggg aaaaaatagc 840
180 agtaattgga cattcttttg gtggagcaac ggttattcag actcttagtg aagatcagag 900

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/922,067F

DATE: 01/04/2005

TIME: 09:17:41

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01042005\I922067F.raw

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181 attcagatgt ggtattgccc tggatgcatg gatgtttcca ctgggtgatg aagtatattc 960
182 cagaattcct cagccctct tttttatcaa ctctgaatat ttccaatatt ctgctaatat 1020
183 cataaaaatg aaaaaatgct actcacctga taaagaaaga aagatgatta caatcagggg 1080
184 ttcagtccac cagaattttg ctgacttcac ttttgcaact ggcaaaataa ttggacacat 1140
185 gctcaaatta aaggagagaca tagattcaaa tgcagctatt gatcttagca acaaagcttc 1200
186 attagcattc ttacaaaagc atttaggact tcataaagat tttgatcagt gggactgctt 1260
187 gattgaagga gatgatgaga atcttattcc agggaccaac attaacacaa ccaatcaaca 1320
188 catcatgtta cagaactctt caggaataga gaaatacaat t 1361

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191 &lt;210&gt; SEQ ID NO: 10

192 &lt;211&gt; LENGTH: 7

193 &lt;212&gt; TYPE: PRT

194 &lt;213&gt; ORGANISM: Homo sapien

196 &lt;400&gt; SEQUENCE: 10

197 Gln Tyr Ile Asn Pro Val Ala

198 1 5

201 &lt;210&gt; SEQ ID NO: 11

202 &lt;211&gt; LENGTH: 20

203 &lt;212&gt; TYPE: PRT

204 &lt;213&gt; ORGANISM: Homo sapien

206 &lt;400&gt; SEQUENCE: 11

207 Met Ile Thr Ile Arg Gly Ser Val His Gln Asn Phe Ala Asp Phe Thr

208 1 5 10 15

209 Phe Ala Thr Gly

210 20

213 &lt;210&gt; SEQ ID NO: 12

214 &lt;211&gt; LENGTH: 7

215 &lt;212&gt; TYPE: PRT

216 &lt;213&gt; ORGANISM: Homo sapien

218 &lt;400&gt; SEQUENCE: 12

219 Gln Tyr Ile Asn Pro Ala Val

220 1 5

223 &lt;210&gt; SEQ ID NO: 13

224 &lt;211&gt; LENGTH: 5

225 &lt;212&gt; TYPE: PRT

226 &lt;213&gt; ORGANISM: Homo sapien

228 &lt;400&gt; SEQUENCE: 13

229 Gln Tyr Ile Asn Pro

230 1 5

233 &lt;210&gt; SEQ ID NO: 14

234 &lt;211&gt; LENGTH: 441

235 &lt;212&gt; TYPE: PRT

236 &lt;213&gt; ORGANISM: Homo sapien

238 &lt;400&gt; SEQUENCE: 14

239 Met Val Pro Pro Lys Leu

240 1 5

242 His Val Leu Phe Cys Leu Cys Gly Cys Leu Ala Val Val Tyr Pro Phe

243 10 15 20

245 Asp Trp Gln Tyr Ile Asn Pro Val Ala His Met Lys Ser Ser Ala Trp

246 25 30 35

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/922,067F

DATE: 01/04/2005

TIME: 09:17:41

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01042005\I922067F.raw

248	Val	Asn	Lys	Ile	Gln	Val	Leu	Met	Ala	Ala	Ala	Ser	Phe	Gly	Gln	Thr
249		40					45					50				
251	Lys	Ile	Pro	Arg	Gly	Asn	Gly	Pro	Tyr	Ser	Val	Gly	Cys	Thr	Asp	Leu
252	55					60					65					70
254	Met	Phe	Asp	His	Thr	Asn	Lys	Gly	Thr	Phe	Leu	Arg	Leu	Tyr	Tyr	Pro
255					75					80					85	
257	Ser	Gln	Asp	Asn	Asp	Arg	Leu	Asp	Thr	Leu	Trp	Ile	Pro	Asn	Lys	Glu
258				90					95					100		
260	Tyr	Phe	Trp	Gly	Leu	Ser	Lys	Phe	Leu	Gly	Thr	His	Trp	Leu	Met	Gly
261			105					110					115			
263	Asn	Ile	Leu	Arg	Leu	Leu	Phe	Gly	Ser	Met	Thr	Thr	Pro	Ala	Asn	Trp
264		120					125						130			
266	Asn	Ser	Pro	Leu	Arg	Pro	Gly	Glu	Lys	Tyr	Pro	Leu	Val	Val	Phe	Ser
267	135					140					145					150
269	His	Gly	Leu	Gly	Ala	Phe	Arg	Thr	Leu	Tyr	Ser	Ala	Ile	Gly	Ile	Asp
270					155					160					165	
272	Leu	Ala	Ser	His	Gly	Phe	Ile	Val	Ala	Ala	Val	Glu	His	Arg	Asp	Arg
273				170						175				180		
275	Ser	Ala	Ser	Ala	Thr	Tyr	Tyr	Phe	Lys	Asp	Gln	Ser	Ala	Ala	Glu	Ile
276			185					190					195			
278	Gly	Asp	Lys	Ser	Trp	Leu	Tyr	Leu	Arg	Thr	Leu	Lys	Gln	Glu	Glu	Glu
279		200					205					210				
281	Thr	His	Ile	Arg	Asn	Glu	Gln	Val	Arg	Gln	Arg	Ala	Lys	Glu	Cys	Ser
282	215					220					225					230
284	Gln	Ala	Leu	Ser	Leu	Ile	Leu	Asp	Ile	Asp	His	Gly	Lys	Pro	Val	Lys
285					235					240					245	
287	Asn	Ala	Leu	Asp	Leu	Lys	Phe	Asp	Met	Glu	Gln	Leu	Lys	Asp	Ser	Ile
288				250					255					260		
290	Asp	Arg	Glu	Lys	Ile	Ala	Val	Ile	Gly	His	Ser	Phe	Gly	Gly	Ala	Thr
291			265					270					275			
293	Val	Ile	Gln	Thr	Leu	Ser	Glu	Asp	Gln	Arg	Phe	Arg	Cys	Gly	Ile	Ala
294		280					285					290				
296	Leu	Asp	Ala	Trp	Met	Phe	Pro	Leu	Gly	Asp	Glu	Val	Tyr	Ser	Arg	Ile
297	295					300					305					310
299	Pro	Gln	Pro	Leu	Phe	Phe	Ile	Asn	Ser	Glu	Tyr	Phe	Gln	Tyr	Pro	Ala
300					315					320					325	
302	Asn	Ile	Ile	Lys	Met	Lys	Lys	Cys	Tyr	Ser	Pro	Asp	Lys	Glu	Arg	Lys
303				330					335					340		
305	Met	Ile	Thr	Ile	Arg	Gly	Ser	Val	His	Gln	Asn	Phe	Ala	Asp	Phe	Thr
306			345					350					355			
308	Phe	Ala	Thr	Gly	Lys	Ile	Ile	Gly	His	Met	Leu	Lys	Leu	Lys	Gly	Asp
309		360					365					370				
311	Ile	Asp	Ser	Asn	Ala	Ala	Ile	Asp	Leu	Ser	Asn	Lys	Ala	Ser	Leu	Ala
312	375					380					385					390
314	Phe	Leu	Gln	Lys	His	Leu	Gly	Leu	His	Lys	Asp	Phe	Asp	Gln	Trp	Asp
315					395					400					405	
317	Cys	Leu	Ile	Glu	Gly	Asp	Asp	Glu	Asn	Leu	Ile	Pro	Gly	Thr	Asn	Ile
318				410				415					420			
320	Asn	Thr	Thr	Asn	Gln	His	Ile	Met	Leu	Gln	Asn	Ser	Ser	Gly	Ile	Glu

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/922,067F

DATE: 01/04/2005  
TIME: 09:17:42

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\01042005\I922067F.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 265,390,395,403,406  
Seq#:6; N Pos. 84  
Seq#:7; N Pos. 257

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/922,067F

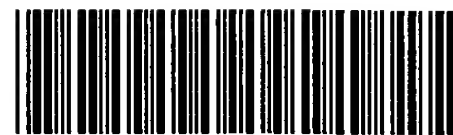
DATE: 01/04/2005

TIME: 09:17:42

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01042005\I922067F.raw

L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:240  
M:341 Repeated in SeqNo=5  
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60  
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:240



IFW16

## RAW SEQUENCE LISTING

DATE: 01/03/2005

PATENT APPLICATION: US/09/922,067F

TIME: 11:27:21

Input Set : A:\SEQ LIST p30693c4x1c1.txt

Output Set: N:\CRF4\01032005\I922067F.raw

4 <110> APPLICANT: MacPhee, Colin Houston  
 5       Tew, David Graham  
 6       Southan, Christopher Donald  
 7       Hickey, Deirdre Mary Bernadette  
 8       Gloger, Israel Simon  
 9       Lawrence, Geoffrey Mark Prouse  
 10      Rice, Simon Quentyn John  
 12 <120> TITLE OF INVENTION: Lipoprotein Associated Phospholipase A2,  
 13      Inhibitors Thereof and Use of the Same in Diagnosis and  
 14      Therapy  
 16 <130> FILE REFERENCE: P30693C4X1C1  
 18 <140> CURRENT APPLICATION NUMBER: 09/922,067F  
 19 <141> CURRENT FILING DATE: 2001-08-03  
 21 <150> PRIOR APPLICATION NUMBER: 09/193,130  
 22 <151> PRIOR FILING DATE: 2000-11-28  
 24 <150> PRIOR APPLICATION NUMBER: 08/387,858  
 25 <151> PRIOR FILING DATE: 1994-06-24  
 27 <150> PRIOR APPLICATION NUMBER: PCT/GB94/01374  
 28 <151> PRIOR FILING DATE: 1994-06-24  
 30 <150> PRIOR APPLICATION NUMBER: GB 9313144.9  
 31 <151> PRIOR FILING DATE: 1993-06-25  
 33 <160> NUMBER OF SEQ ID NOS: 14  
 35 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 37 <210> SEQ ID NO: 1  
 38 <211> LENGTH: 37  
 39 <212> TYPE: PRT  
 40 <213> ORGANISM: Homo sapien  
 42 <400> SEQUENCE: 1  
 43 Met Leu Lys Leu Lys Gly Asp Ile Asp Ser Asn Ala Ala Ile Asp Leu  
 44   1                   5                   10                   15  
 45 Ser Asn Lys Ala Ser Leu Ala Phe Leu Gln Lys His Leu Gly Leu His  
 46       20                   25                   30  
 47 Lys Asp Phe Asp Gln  
 48       35  
 51 <210> SEQ ID NO: 2  
 52 <211> LENGTH: 30  
 53 <212> TYPE: PRT  
 54 <213> ORGANISM: Homo sapien  
 56 <400> SEQUENCE: 2  
 57 Trp Met Phe Pro Leu Gly Asp Glu Val Tyr Ser Arg Ile Pro Gln Pro  
 58   1                   5                   10                   15  
 59 Leu Phe Phe Ile Asn Ser Glu Tyr Phe Gln Tyr Pro Ala Asn  
 60       20                   25                   30

Does Not Comply  
Corrected Diskette Reader

PP-316

## RAW SEQUENCE LISTING

DATE: 01/03/2005

PATENT APPLICATION: US/09/922,067F

TIME: 11:27:21

Input Set : A:\SEQ LIST p30693c4x1c1.txt

Output Set: N:\CRF4\01032005\I922067F.raw

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63 <210> SEQ ID NO: 3
64 <211> LENGTH: 27
65 <212> TYPE: PRT
66 <213> ORGANISM: Homo sapien
68 <400> SEQUENCE: 3
69 Gln Tyr Ile Asn Pro Ala Val Met Ile Thr Ile Arg Gly Ser Val His
70 1 5 10 15
71 Gln Asn Phe Ala Asp Phe Thr Phe Ala Thr Gly
72 20 25
75 <210> SEQ ID NO: 4
76 <211> LENGTH: 19
77 <212> TYPE: PRT
78 <213> ORGANISM: Homo sapien
80 <400> SEQUENCE: 4
81 Trp Leu Met Gly Asn Ile Leu Arg Leu Leu Phe Gly Ser Met Thr Thr
82 1 5 10 15
83 Pro Ala Asn
87 <210> SEQ ID NO: 5
88 <211> LENGTH: 420
89 <212> TYPE: DNA
90 <213> ORGANISM: Homo sapien
92 <220> FEATURE:
93 <221> NAME/KEY: misc_feature
94 <222> LOCATION: 265, 390, 395, 403, 406
95 <223> OTHER INFORMATION: n = A,T,C or G
97 <400> SEQUENCE: 5
98 aaaaaaccta ttttaacct aattgtatct ctctattcct gaagagttct gtaacatgat 60
99 gtgttgattg gttgtgttaa tgttggtccc tggaataaga ttctcatcat ctcttcaat 120
100 caagcagtcc cactgatcaa aatctttatg aagtcctaaa tgcttttgta agaatgctaa 180
101 tgaagctttg ttgctaagat caatagctgc atttgaatct atgtctccct ttaatttgag 240
W--> 102 catgtgtcca attatcttgc cagtngcaaa agtgaagtca gcaaaattct ggtggactga 300
103 acccctgatt gtaatcatct ttctttcttt atcaggtagag tagcattttt tcatttttat 360
104 gatattagca ggatattgga aatattcagn gttgntaaaa agngngnggct gagggattct 420
107 <210> SEQ ID NO: 6
108 <211> LENGTH: 379
109 <212> TYPE: DNA
110 <213> ORGANISM: Homo sapien
112 <220> FEATURE:
113 <221> NAME/KEY: misc_feature
114 <222> LOCATION: 84
115 <223> OTHER INFORMATION: n = A,T,C or G
117 <400> SEQUENCE: 6
118 tgctaataatc ataaaaatga aaaaatgcta ctcacctgat aaagaaagaa agatgattac 60
W--> 119 aatcaggggt tcagtccacc aganttttgc tgacttcact tttgcaactg gcaaaataat 120
120 tggacacatg ctcaaattaa agggagacat agattcaaat gtagctattg atcttagcaa 180
121 caaagcttca ttagcattct taaaaagca tttaggactt cataaagatt ttgttcagt 240
122 ggactgcttg attgaaggag atgatgagaa tcttattcca gggaccaaca ttaacacaac 300
123 caattcaaca catcatgttt acagaacttc ttccaggga taggaggaaa tacaattggg 360
124 gtttaaaata ggtttttttt 379

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## RAW SEQUENCE LISTING

DATE: 01/03/2005

PATENT APPLICATION: US/09/922,067F

TIME: 11:27:21

Input Set : A:\SEQ LIST p30693c4x1c1.txt

Output Set: N:\CRF4\01032005\I922067F.raw

126 <210> SEQ ID NO: 7  
 127 <211> LENGTH: 279  
 128 <212> TYPE: DNA  
 129 <213> ORGANISM: Homo sapien *delete*  
 W--> 131 <220> FEATURE: Feature  
 132 <221> NAME/KEY: misc\_feature  
 133 <222> LOCATION: 257  
 134 <223> OTHER INFORMATION: n = A,T,C or G  
 136 <400> SEQUENCE: 7  
 137 gaagaatgca ttagatttaa agtttgatat ggaacaactg aaggactcta ttgataggga 60  
 138 aaaaatagca gtaattggac attcttttgg tggagcaacg gttattcaga ctcttagtga 120  
 139 agatcagaga ttcagatgtg gtattgccct ggatgcatgg atgtttccac tgggtgatga 180  
 140 agtatattcc agaattcctc agcccctctt ttttatcaac tctgaatatt tccaatatcc 240  
 W--> 141 **tgctaataatc ataaaantgg aaaaatgcta ctcacctgg** 279  
 143 <210> SEQ ID NO: 8  
 144 <211> LENGTH: 572  
 145 <212> TYPE: DNA  
 146 <213> ORGANISM: Homo sapien  
 148 <400> SEQUENCE: 8  
 149 aaaatagcag taattggaca ttcttttaggt ggagcaacgg ttattcagac tcttagtgaa 60  
 150 gatcagagat tcagatgtgg tattgcccctg gatgcatgga tgtttccact ggggtgatgaa 120  
 151 gtatatcca gaattcctca gcccctcttt tttatcaact ctgaatattt ccaatatcct 180  
 152 gctaatatca taaaaatgaa aaaatgctac tcacctgata aagaaagaaa gatgattaca 240  
 153 atcaggggtt cagtccacca gaattttgct gacttcactt ttgcaactgg caaaataatt 300  
 154 ggacacatgc tcaaattaaa gggagacata gattcaaatg tagctattga tcttagcaac 360  
 155 aaagcttcat cagcattctt acaaaagcat ttaggacttc ataaagattt tgatcagtgg 420  
 156 gactgcttga ttgaaggaga tgatgagaat cttattccag ggaccaacat taacacaacc 480  
 157 aatcaacaca tcatgttaca gaactcttca ggaatagaga aatacaatta ggattaaaat 540  
 158 aggtttttta aaaaaaaaaa aaaaaaaact cg 572  
 160 <210> SEQ ID NO: 9  
 161 <211> LENGTH: 1361  
 162 <212> TYPE: DNA  
 163 <213> ORGANISM: Homo sapien  
 165 <400> SEQUENCE: 9  
 166 tgagagacta agctgaaact gctgctcagc tcccaagatg gtgccacca aattgcatgt 60  
 167 gctttttctgc ctctgcggtc gcctggctgt ggtttatcct tttgactggc aatacataaa 120  
 168 tcctgttgcc catatgaaat catcagcatg ggtcaacaaa atacaagtac tgatggctgc 180  
 169 tgcaagcttt ggccaaacta aaatcccccg gggaaatggg ccttattccg ttggttgtag 240  
 170 agacttaatg tttgatcaca ctaataaggg caccttcttg cgtttatatt atccatccca 300  
 171 agataatgat cgccttgaca ccctttggat cccaaataaa gaatattttt ggggtccttag 360  
 172 caaattttctt ggaacacact ggcttatggg caacattttg aggttactct ttggttcaat 420  
 173 gacaactcct gcaaaactgga attcccctct gaggcctggt gaaaaatatc cacttggtgt 480  
 174 tttttctcat ggtcttgggg cattcaggac actttattct gctattggca ttgacctggc 540  
 175 atctcatggg tttatagttg ctgctgtaga acacagagat agatctgcat ctgcaactta 600  
 176 ctatttcaag gaccaatctg ctgcagaaat aggggacaag tcttggctct acctagAAC 660  
 177 cctgaaacaa gaggaggaga cacatatacg aaatgagcag gtacggcaaa gagcaaaaga 720  
 178 atgttcccaa gctctcagtc tgattcttga cattgatcat ggaaagccag tgaagaatgc 780  
 179 attagattta aagtttgata tggacaact gaaggactct attgataggg aaaaaatagc 840  
 180 agtaattgga cattcttttg gtggagcaac gggtattcag actcttagtg aagatcagag 900

## RAW SEQUENCE LISTING

DATE: 01/03/2005

PATENT APPLICATION: US/09/922,067F

TIME: 11:27:21

Input Set : A:\SEQ LIST p30693c4x1c1.txt

Output Set: N:\CRF4\01032005\I922067F.raw

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181 attcagatgt ggtattgccc tggatgcatg gatgtttcca ctgggtgatg aagtatatc 960
182 cagaattcct cagccctct tttttatcaa ctctgaatat ttccaatat ctgctaatat 1020
183 cataaaaatg aaaaaatgct actcacctga taaagaaaga aagatgatta caatcagggg 1080
184 ttcagtccac cagaattttg ctgacttcac ttttgcaact ggcaaaataa ttggacacat 1140
185 gctcaaatta aaggagagaca tagattcaaa tgcagctatt gatcttagca acaaagcttc 1200
186 attagcattc ttacaaaagc atttaggact tcataaagat tttgatcagt gggactgctt 1260
187 gattgaagga gatgatgaga atcttattcc agggaccaac attaacacaa ccaatcaaca 1320
188 catcatgtta cagaactctt caggaataga gaaatacaat t 1361

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191 &lt;210&gt; SEQ ID NO: 10

192 &lt;211&gt; LENGTH: 7

193 &lt;212&gt; TYPE: PRT

194 &lt;213&gt; ORGANISM: Homo sapien

196 &lt;400&gt; SEQUENCE: 10

197 Gln Tyr Ile Asn Pro Val Ala

198 1 5

201 &lt;210&gt; SEQ ID NO: 11

202 &lt;211&gt; LENGTH: 20

203 &lt;212&gt; TYPE: PRT

204 &lt;213&gt; ORGANISM: Homo sapien

206 &lt;400&gt; SEQUENCE: 11

207 Met Ile Thr Ile Arg Gly Ser Val His Gln Asn Phe Ala Asp Phe Thr

208 1 5 10 15

209 Phe Ala Thr Gly

210 20

213 &lt;210&gt; SEQ ID NO: 12

214 &lt;211&gt; LENGTH: 7

215 &lt;212&gt; TYPE: PRT

216 &lt;213&gt; ORGANISM: Homo sapien

218 &lt;400&gt; SEQUENCE: 12

219 Gln Tyr Ile Asn Pro Ala Val

220 1 5

223 &lt;210&gt; SEQ ID NO: 13

224 &lt;211&gt; LENGTH: 5

225 &lt;212&gt; TYPE: PRT

226 &lt;213&gt; ORGANISM: Homo sapien

228 &lt;400&gt; SEQUENCE: 13

229 Gln Tyr Ile Asn Pro

230 1 5

233 &lt;210&gt; SEQ ID NO: 14

234 &lt;211&gt; LENGTH: 441

235 &lt;212&gt; TYPE: PRT

236 &lt;213&gt; ORGANISM: Homo sapien

238 &lt;400&gt; SEQUENCE: 14

239 Met Val Pro Pro Lys Leu

240 1 5

242 His Val Leu Phe Cys Leu Cys Gly Cys Leu Ala Val Val Tyr Pro Phe

243 10 15 20

245 Asp Trp Gln Tyr Ile Asn Pro Val Ala His Met Lys Ser Ser Ala Trp

246 25 30 35

## RAW SEQUENCE LISTING

DATE: 01/03/2005

PATENT APPLICATION: US/09/922,067F

TIME: 11:27:21

Input Set : A:\SEQ LIST p30693c4x1c1.txt

Output Set: N:\CRF4\01032005\I922067F.raw

248	Val	Asn	Lys	Ile	Gln	Val	Leu	Met	Ala	Ala	Ala	Ser	Phe	Gly	Gln	Thr
249		40					45					50				
251	Lys	Ile	Pro	Arg	Gly	Asn	Gly	Pro	Tyr	Ser	Val	Gly	Cys	Thr	Asp	Leu
252	55					60					65					70
254	Met	Phe	Asp	His	Thr	Asn	Lys	Gly	Thr	Phe	Leu	Arg	Leu	Tyr	Tyr	Pro
255					75					80						85
257	Ser	Gln	Asp	Asn	Asp	Arg	Leu	Asp	Thr	Leu	Trp	Ile	Pro	Asn	Lys	Glu
258				90					95					100		
260	Tyr	Phe	Trp	Gly	Leu	Ser	Lys	Phe	Leu	Gly	Thr	His	Trp	Leu	Met	Gly
261			105					110					115			
263	Asn	Ile	Leu	Arg	Leu	Leu	Phe	Gly	Ser	Met	Thr	Thr	Pro	Ala	Asn	Trp
264		120					125					130				
266	Asn	Ser	Pro	Leu	Arg	Pro	Gly	Glu	Lys	Tyr	Pro	Leu	Val	Val	Phe	Ser
267	135					140					145					150
269	His	Gly	Leu	Gly	Ala	Phe	Arg	Thr	Leu	Tyr	Ser	Ala	Ile	Gly	Ile	Asp
270				155						160					165	
272	Leu	Ala	Ser	His	Gly	Phe	Ile	Val	Ala	Ala	Val	Glu	His	Arg	Asp	Arg
273				170						175				180		
275	Ser	Ala	Ser	Ala	Thr	Tyr	Tyr	Phe	Lys	Asp	Gln	Ser	Ala	Ala	Glu	Ile
276			185					190					195			
278	Gly	Asp	Lys	Ser	Trp	Leu	Tyr	Leu	Arg	Thr	Leu	Lys	Gln	Glu	Glu	Glu
279		200					205					210				
281	Thr	His	Ile	Arg	Asn	Glu	Gln	Val	Arg	Gln	Arg	Ala	Lys	Glu	Cys	Ser
282	215				220						225					230
284	Gln	Ala	Leu	Ser	Leu	Ile	Leu	Asp	Ile	Asp	His	Gly	Lys	Pro	Val	Lys
285				235						240					245	
287	Asn	Ala	Leu	Asp	Leu	Lys	Phe	Asp	Met	Glu	Gln	Leu	Lys	Asp	Ser	Ile
288			250						255					260		
290	Asp	Arg	Glu	Lys	Ile	Ala	Val	Ile	Gly	His	Ser	Phe	Gly	Gly	Ala	Thr
291			265					270					275			
293	Val	Ile	Gln	Thr	Leu	Ser	Glu	Asp	Gln	Arg	Phe	Arg	Cys	Gly	Ile	Ala
294		280					285					290				
296	Leu	Asp	Ala	Trp	Met	Phe	Pro	Leu	Gly	Asp	Glu	Val	Tyr	Ser	Arg	Ile
297	295					300					305					310
299	Pro	Gln	Pro	Leu	Phe	Phe	Ile	Asn	Ser	Glu	Tyr	Phe	Gln	Tyr	Pro	Ala
300				315						320					325	
302	Asn	Ile	Ile	Lys	Met	Lys	Lys	Cys	Tyr	Ser	Pro	Asp	Lys	Glu	Arg	Lys
303			330						335					340		
305	Met	Ile	Thr	Ile	Arg	Gly	Ser	Val	His	Gln	Asn	Phe	Ala	Asp	Phe	Thr
306			345					350					355			
308	Phe	Ala	Thr	Gly	Lys	Ile	Ile	Gly	His	Met	Leu	Lys	Leu	Lys	Gly	Asp
309		360					365					370				
311	Ile	Asp	Ser	Asn	Ala	Ala	Ile	Asp	Leu	Ser	Asn	Lys	Ala	Ser	Leu	Ala
312	375				380						385					390
314	Phe	Leu	Gln	Lys	His	Leu	Gly	Leu	His	Lys	Asp	Phe	Asp	Gln	Trp	Asp
315				395						400					405	
317	Cys	Leu	Ile	Glu	Gly	Asp	Asp	Glu	Asn	Leu	Ile	Pro	Gly	Thr	Asn	Ile
318			410						415					420		
320	Asn	Thr	Thr	Asn	Gln	His	Ile	Met	Leu	Gln	Asn	Ser	Ser	Gly	Ile	Glu

09/922,067F 6

(Sequence 14-end)

Lys Tyr Asn  
440

1/6

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/922,067F

DATE: 01/03/2005  
TIME: 11:27:22

Input Set : A:\SEQ LIST p30693c4x1c1.txt  
Output Set: N:\CRF4\01032005\I922067F.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 265,390,395,403,406

Seq#:6; N Pos. 84

Seq#:7; N Pos. 257

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/922,067F

DATE: 01/03/2005

TIME: 11:27:22

Input Set : A:\SEQ LIST p30693c4x1c1.txt

Output Set: N:\CRF4\01032005\I922067F.raw

L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:240  
M:341 Repeated in SeqNo=5  
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60  
L:131 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:240